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FILE 'HOME' ENTERED AT 14:01:17 ON 06 APR 2004

=> file medline, agricola, caba, caplus, biosis, biotechno, uspatfull
COST IN U.S. DOLLARS . SINCE FILE TOTAL
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FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 14:01:23 ON 06 APR 2004

FILE 'AGRICOLA' ENTERED AT 14:01:23 ON 06 APR 2004

FILE 'CABA' ENTERED AT 14:01:23 ON 06 APR 2004
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FILE 'CAPLUS' ENTERED AT 14:01:23 ON 06 APR 2004
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FILE 'USPATFULL' ENTERED AT 14:01:23 ON 06 APR 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

```
=> s (dixon, r? or dixon r?)/au
L1      5708 (DIXON, R? OR DIXON R?)/AU

=> s (podstolski, a? or podstolski a?)/au
L2      74 (PODSTOLSKI, A? OR PODSTOLSKI A?)/AU

=> s (havkin-frenkel, d? or havkin-frenkel d? or havkin frenkel, d? or havkin
frenkel d? or havkinfrenkel, d? or havkinfrenkel d?)/au
L3      39 (HAVKIN-FRENKEL, D? OR HAVKIN-FRENKEL D? OR HAVKIN FRENKEL, D?
OR HAVKIN FRENKEL D? OR HAVKINFRENKEL, D? OR HAVKINFRENKEL D?)/AU
      II
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=> s l1 and l2 and l3
L4 7 L1 AND L2 AND L3

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=> duplicate remove l4
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, USPATFULL'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L4
L5          2 DUPLICATE REMOVE L4 (5 DUPLICATES REMOVED)
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=> d 15 1-2 bib

L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2003:282155 CAPLUS
DN 138:302756
TI Vanillin biosynthetic pathway enzyme from *Vanilla planifolia*
IN Havkin-Frenkel, Daphna; Podstolski, Andrzej;
Dixon, Richard A.

PA USA
 SO U.S. Pat. Appl. Publ., 49 pp., Cont.-in-part of U.S. Ser. No. 462,576.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003070188	A1	20030410	US 2002-87714	20020228
	WO 9903975	A1	19990128	WO 1998-US14895	19980715
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	WO 2003071861	A3	20031211	WO 2003-US6397	20030227
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 1997-52606P	P	19970715		
	WO 1998-US14895	W	19980715		
	US 2000-462576	A2	20000525		
	US 2001-272415P	P	20010228		
	US 2002-87714	A	20020228		

L5 ANSWER 2 OF 2 MEDLINE on STN DUPLICATE 2
 AN 2002664431 MEDLINE
 DN PubMed ID: 12423881
 TI Unusual 4-hydroxybenzaldehyde synthase activity from tissue cultures of the vanilla orchid *Vanilla planifolia*.
 AU Podstolski Andrzej; Havkin-Frenkel Daphna; Malinowski Jacek; Blount Jack W; Kourteva Galina; Dixon Richard A
 CS Plant Biology Division, Samuel Roberts Noble Foundation, 2510 Sam Noble Parkway, Ardmore, OK 73401, USA.
 SO Phytochemistry, (2002 Nov) 61 (6) 611-20.
 Journal code: 0151434. ISSN: 0031-9422.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200302
 ED Entered STN: 20021109
 Last Updated on STN: 20030212
 Entered Medline: 20030211

=> s 11 or 12 or 13
 L6 5790 L1 OR L2 OR L3

=> s 16 and vanilla
 L7 34 L6 AND VANILLA

=> s 17 not 14
 L8 27 L7 NOT L4

=> duplicate remove 18
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L8
L9 15 DUPLICATE REMOVE L8 (12 DUPLICATES REMOVED)

=> d 19 1-10 ti

L9 ANSWER 1 OF 15 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 1
TI A hairy tissue produces vanillin.

L9 ANSWER 2 OF 15 MEDLINE on STN DUPLICATE 2
TI Properties of diphenolase from **Vanilla planifolia** (Andr.) shoot
primordia cultured in vitro.

L9 ANSWER 3 OF 15 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Localisation of diphenolase activity and phenolics in **Vanilla**
planifolia shoot primordia cultured in liquid medium.

L9 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Improved vanillin production

L9 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Vanillin biosynthetic pathways: an overview

L9 ANSWER 6 OF 15 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Properties of polyphenol oxidases from **Vanilla planifolia**
(Andr.) tissues cultured in liquid medium.

L9 ANSWER 7 OF 15 CABA COPYRIGHT 2004 CABI on STN
TI Plant tissue culture for production of secondary metabolites.

L9 ANSWER 8 OF 15 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 3
TI **Vanilla**.

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Vanillin biosynthesis- an overview.

L9 ANSWER 10 OF 15 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Vanillin biosynthesis: An overview.

=> d 19 5,9 bib

L9 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:288901 CAPLUS
DN 133:29624
TI Vanillin biosynthetic pathways: an overview
AU **Havkin-Frenkel, Daphna; Podstolski, Andrzej;**
Witkowska, Ewa; Molecki, Piotr; Mikolajczyk, Monika
CS David Michael and Co., Inc., Philadelphia, PA, 19154, USA
SO Plant Cell and Tissue Culture for the Production of Food Ingredients,
[Proceedings of the Symposium on Plant Cell and Tissue Culture for the
Production of Food Ingredients], San Francisco, April 13-17, 1997 (1999),
Meeting Date 1997, 35-43. Editor(s): Fu, Tong-Jen; Singh, Gurmeet;
Curtis, Wayne R. Publisher: Kluwer Academic/Plenum Publishers, New York,
N. Y.
CODEN: 68WEAG
DT Conference; General Review
LA English
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:158343 CAPLUS
TI Vanillin biosynthesis- an overview.
AU **Havkin-Frenkel, Daphna; Podstolski, Andrzej**
CS David Michael and Co., Philadelphia, PA, 19154, USA
SO Book of Abstracts, 213th ACS National Meeting, San Francisco, April 13-17
(1997), AGFD-011 Publisher: American Chemical Society, Washington, D. C.
CODEN: 64AOAA
DT Conference; Meeting Abstract
LA English

=> d 19 11-15 ti

L9 ANSWER 11 OF 15 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 4
TI Effect of light on vanillin precursors formation by *in vitro* cultures of **Vanilla planifolia**. [Erratum: Aug 1996, v. 46 (2), p. 169.]

L9 ANSWER 12 OF 15 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI **Vanilla**.

L9 ANSWER 13 OF 15 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Alcohol dehydrogenase from **Vanilla planifolia** green embryo tissue culture.

L9 ANSWER 14 OF 15 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 5
TI Biosynthesis and yield improvement of food ingredients from plant cell and tissue cultures.

L9 ANSWER 15 OF 15 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 6
TI Plant cells for the production of food ingredients.

=> d his

(FILE 'HOME' ENTERED AT 14:01:17 ON 06 APR 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO, USPATFULL'
ENTERED AT 14:01:23 ON 06 APR 2004

L1 5708 S (DIXON, R? OR DIXON R?)/AU
L2 74 S (PODSTOLSKI, A? OR PODSTOLSKI A?)/AU
L3 39 S (HAVKIN-FRENKEL, D? OR HAVKIN-FRENKEL D? OR HAVKIN FRENKEL, D
L4 7 S L1 AND L2 AND L3
L5 2 DUPLICATE REMOVE L4 (5 DUPLICATES REMOVED)
L6 5790 S L1 OR L2 OR L3
L7 34 S L6 AND VANILLA
L8 27 S L7 NOT L4
L9 15 DUPLICATE REMOVE L8 (12 DUPLICATES REMOVED)

=> s hydroxybenzaldehyde

L10 14963 HYDROXYBENZALDEHYDE

=> s coumaric

L11 11825 COUMARIC

=> s l10 and l11

L12 524 L10 AND L11

=> s l12 and vanilla

L13 39 L12 AND VANILLA

```
=> s l13 and synthase
L14          17 L13 AND SYNTHASE

=> s l14 not 16
L15          9 L14 NOT L6

=> d l15 1-9 ti

L15 ANSWER 1 OF 9      MEDLINE on STN
TI Vanillin.

L15 ANSWER 2 OF 9  AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN
TI Vanillin.

L15 ANSWER 3 OF 9  CABA COPYRIGHT 2004 CABI on STN
TI Vanillin.

L15 ANSWER 4 OF 9  CAPLUS COPYRIGHT 2004 ACS on STN
TI Vanillin

L15 ANSWER 5 OF 9  BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Vanillin.

L15 ANSWER 6 OF 9  BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
TI Vanillin

L15 ANSWER 7 OF 9  USPATFULL on STN
TI Production of p-hydroxybenzoic acid

L15 ANSWER 8 OF 9  USPATFULL on STN
TI Production of vanillin

L15 ANSWER 9 OF 9  USPATFULL on STN
TI Production of vanillin

=> duplicate remove 19
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L9
L16          15 DUPLICATE REMOVE L9 (0 DUPLICATES REMOVED)

=> duplicate remove 115
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO,
USPATFULL'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L15
L17          4 DUPLICATE REMOVE L15 (5 DUPLICATES REMOVED)

=> d l17 1-4 ti

L17 ANSWER 1 OF 4  USPATFULL on STN
TI Production of p-hydroxybenzoic acid

L17 ANSWER 2 OF 4      MEDLINE on STN          DUPLICATE 1
TI Vanillin.

L17 ANSWER 3 OF 4  USPATFULL on STN
TI Production of vanillin

L17 ANSWER 4 OF 4  USPATFULL on STN
TI Production of vanillin
```

=> d 117 1-4 bib

L17 ANSWER 1 OF 4 USPATFULL on STN
AN 2003:239351 USPATFULL
TI Production of p-hydroxybenzoic acid
IN Narbad, Arjan, Norfolk, UNITED KINGDOM
Rhodes, Michael John Charles, Norfolk, UNITED KINGDOM
Gasson, Michael John, Norfolk, UNITED KINGDOM
Walton, Nicholas John, Norfolk, UNITED KINGDOM
PI US 2003167511 A1 20030904
AI US 2002-199405 A1 20020717 (10)
RLI Division of Ser. No. US 2000-733383, filed on 7 Dec 2000, PENDING
Division of Ser. No. US 1998-155185, filed on 22 Sep 1998, ABANDONED A
371 of International Ser. No. WO 1997-GB809, filed on 24 Mar 1997,
UNKNOWN
PRAI GB 1996-6187 19960323
DT Utility
FS APPLICATION
LREP Michael L. Goldman, NIXON PEABODY LLP, Clinton Square, P.O. Box 31051,
Rochester, NY, 14603-1051
CLMN Number of Claims: 20
ECL Exemplary Claim: 67
DRWN 27 Drawing Page(s)
LN.CNT 2760
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 2 OF 4 MEDLINE on STN DUPLICATE 1
AN 2003283945 MEDLINE
DN PubMed ID: 12809710
TI Vanillin.
AU Walton Nicholas J; Mayer Melinda J; Narbad Arjan
CS Food Safety Science Division, Institute of Food Research, Norwich Research
Park, Colney, Norwich NR4 7UA, UK.. nicholas.walton@bbsrc.ac.uk
SO Phytochemistry, (2003 Jul) 63 (5) 505-15. Ref: 67
Journal code: 0151434. ISSN: 0031-9422.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Priority Journals
EM 200309
ED Entered STN: 20030618
Last Updated on STN: 20030917
Entered Medline: 20030916

L17 ANSWER 3 OF 4 USPATFULL on STN
AN 2001:134018 USPATFULL
TI Production of vanillin
IN Narbad, Arjan, Norfolk, Great Britain
Rhodes, Michael John Charles, Norfolk, Great Britain
Gasson, Michael John, Norfolk, Great Britain
Walton, Nicholas John, Norfolk, Great Britain
PI US 2001014467 A1 20010816
US 6664088 B2 20031216
AI US 2000-733383 A1 20001207 (9)
RLI Division of Ser. No. US 1999-155183, filed on 3 May 1999, PENDING A 371
of International Ser. No. WO 1997-GB809, filed on 24 Mar 1997, UNKNOWN
PRAI GB 1996-6187 19960323
DT Utility
FS APPLICATION
LREP Michael L. Goldman, NIXON PEABODY LLP, Clinton Square, P.O. Box 31051,
Rochester, NY, 14603

CLMN Number of Claims: 66
ECL Exemplary Claim: 1
DRWN 27 Drawing Page(s)
LN.CNT 2525
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 4 OF 4 USPATFULL on STN
AN 2001:214867 USPATFULL
TI Production of vanillin
IN Narbad, Arjan, Norfolk, United Kingdom
Rhodes, Michael John Charles, Norfolk, United Kingdom
Gasson, Michael John, Norfolk, United Kingdom
Walton, Nicholas John, Norfolk, United Kingdom
PA Institute of Food Research, United Kingdom (non-U.S. corporation)
PI US 6323011 B1 20011127
WO 9735999 19971002
AI US 1999-155183 19990503 (9)
WO 1997-GB809 19970324
19990503 PCT 371 date
19990503 PCT 102(e) date
PRAI GB 1996-6187 19960323
DT Utility
FS GRANTED
EXNAM Primary Examiner: Lilling, Herbert J.
LREP Nixon Peabody LLP
CLMN Number of Claims: 19
ECL Exemplary Claim: 1
DRWN 28 Drawing Figure(s); 27 Drawing Page(s)
LN.CNT 2470
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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FILE 'MEDLINE, AGRICOLA, CABAB, CAPLUS, BIOSIS, BIOTECHNO, USPATFULL'
ENTERED AT 14:01:23 ON 06 APR 2004

L1 5708 S (DIXON, R? OR DIXON R?)/AU
L2 74 S (PODSTOLSKI, A? OR PODSTOLSKI A?)/AU
L3 39 S (HAVKIN-FRENKEL, D? OR HAVKIN-FRENKEL D? OR HAVKIN FRENKEL, D
L4 7 S L1 AND L2 AND L3
L5 2 DUPLICATE REMOVE L4 (5 DUPLICATES REMOVED)
L6 5790 S L1 OR L2 OR L3
L7 34 S L6 AND VANILLA
L8 27 S L7 NOT L4
L9 15 DUPLICATE REMOVE L8 (12 DUPLICATES REMOVED)
L10 14963 S HYDROXYBENZALDEHYDE
L11 11825 S COUMARIC
L12 524 S L10 AND L11
L13 39 S L12 AND VANILLA
L14 17 S L13 AND SYNTHASE
L15 9 S L14 NOT L6
L16 15 DUPLICATE REMOVE L9 (0 DUPLICATES REMOVED)
L17 4 DUPLICATE REMOVE L15 (5 DUPLICATES REMOVED)

=> s 4hbs or 4 (w)hydroxybenzaldehyde (w) synthase
L18 18 4HBS OR 4 (W) HYDROXYBENZALDEHYDE (W) SYNTHASE

=> s 118 and (gene or DNA)
L19 2 L18 AND (GENE OR DNA)

=> s 119 not 16
L20 0 L19 NOT L6

=> d his

(FILE 'HOME' ENTERED AT 14:01:17 ON 06 APR 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO, USPATFULL'
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L1 5708 S (DIXON, R? OR DIXON R?)/AU
L2 74 S (PODSTOLSKI, A? OR PODSTOLSKI A?)/AU
L3 39 S (HAVKIN-FRENKEL, D? OR HAVKIN-FRENKEL D? OR HAVKIN FRENKEL, D
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L6 5790 S L1 OR L2 OR L3
L7 34 S L6 AND VANILLA
L8 27 S L7 NOT L4
L9 15 DUPLICATE REMOVE L8 (12 DUPLICATES REMOVED)
L10 14963 S HYDROXYBENZALDEHYDE
L11 11825 S COUMARIC
L12 524 S L10 AND L11
L13 39 S L12 AND VANILLA
L14 17 S L13 AND SYNTHASE
L15 9 S L14 NOT L6
L16 15 DUPLICATE REMOVE L9 (0 DUPLICATES REMOVED)
L17 4 DUPLICATE REMOVE L15 (5 DUPLICATES REMOVED)
L18 18 S 4HBS OR 4(W) HYDROXYBENZALDEHYDE (W) SYNTHASE
L19 2 S L18 AND (GENE OR DNA)
L20 0 S L19 NOT L6

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	57.92	58.13

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